

FILEID**OUTXHR

K 14

000000 UU UU TTTTTTTTTT XX XX HH HH RRRRRRRR
000000 UU UU TTTTTTTTTT XX XX HH HH RRRRRRRR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HHHHHHHHHHH RRRRRRRR
00 00 UU UU TT XX XX HH HHHHHHHHHHH RRRRRRRR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HH RR RR
00 00 UU UU TT XX XX HH HH RR RR
000000 UUUUUUUUUU TT XX XX HH HH RR RR RR
000000 UUUUUUUUUU TT XX XX HH HH RR RR RR

....
....
....

LL IIIII SSSSSSS
LL IIIII SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SSSSS
LL II SSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL IIIII SSSSSSS
LLLLLLLLLL IIIII SSSSSSS

P
V
.....

1 0001 0 XTITLE 'Enters characters into index flag buffer'
2 0002 0 MODULE OUTXHR (IDENT = 'V04-000'
3 0003 0 XBLISS32L,
4 0004 0 ADDRESSING_MODE(INTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
5 0005 0]
6 0006 0) =
7 0007 1 BEGIN
8 0008 1 *****
9 0009 1 *
10 0010 1 *
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29 0029 1 *
30 0030 1 *****
31 0031 1 *
32 0032 1 **
33 0033 1 * FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
34 0034 1 *
35 0035 1 * ABSTRACT: Enter a single character into the Index flag buffer.
36 0036 1 *
37 0037 1 *
38 0038 1 * ENVIRONMENT: Transportable
39 0039 1 *
40 0040 1 * AUTHOR: R.W.Friday CREATION DATE: December, 1978
41 0041 1 *

OUTXHR
V04-000

Enters characters into index flag buffer
Revision History

M 14

16-Sep-1984 01:23:53
14-Sep-1984 13:07:35

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]OUTXHR.BLI;1

Page 2
(2)

: 43 0042 1 %SBTTL 'Revision History'
: 44 0043 1
: 45 0044 1 MODIFIED BY:
: 46 0045 1
: 47 0046 1 010 REM00010 Ray Marshall 17-November-1983
: 48 0047 1 Modified the way we look at the character output. We strip
: 49 0048 1 off the high order bit so we can still check in the same
: 50 0049 1 way if is printable.
: 51 0050 1 (I don't know what happened in IDENTs 7 through 9. When I
: 52 0051 1 started this edit, the IDENT was at 009.)
: 53 0052 1
: 54 0053 1 006 KAD00006 Keith Dawson 07-Mar-1983
: 55 0054 1 Global edit of all modules. Updated module names, idents,
: 56 0055 1 copyright dates. Changed require files to BLISS {library.
: 57 0056 1
: 58 0057 1 !--

```
60      0058 1 %SBTTL 'Module Level Declarations'  
61      0059 1  
62      0060 1  
63      0061 1 | TABLE OF CONTENTS:  
64      0062 1  
65      0063 1 FORWARD ROUTINE  
66      0064 1 OUTXPH : NOVALUE;  
67      0065 1  
68      0066 1 | INCLUDE FILES:  
69      0067 1  
70      0068 1  
71      0069 1 LIBRARY 'NXPORT:XPORT';  
72      0070 1 REQUIRE 'REQ:RNODEF';  
73      0201 1  
74      U 0202 1 %IF DSRPLUS %THEN  
75      U 0203 1 LIBRARY 'REQ:DPLLIB';  
76      0204 1 %ELSE  
77      0205 1 LIBRARY 'REQ:DSRLIB';  
78      0206 1 %FI  
79      0207 1  
80      0208 1  
81      0209 1 | MACROS:  
82      0210 1  
83      0211 1  
84      0212 1 | EQUATED SYMBOLS:  
85      0213 1  
86      0214 1  
87      0215 1 EXTERNAL LITERAL  
88      0216 1 RINTES : UNSIGNED (8);  
89      0217 1  
90      0218 1 EXTERNAL LITERAL  
91      0219 1 RNFITC;  
92      0220 1  
93      0221 1  
94      0222 1 | OWN STORAGE:  
95      0223 1  
96      0224 1  
97      0225 1 | EXTERNAL REFERENCES:  
98      0226 1  
99      0227 1  
100     0228 1 EXTERNAL  
101     0229 1 GCA : GCA-DEFINITION,  
102     0230 1 SCA : SCA-DEFINITION,  
103     0231 1 TSF : TSF-DEFINITION,  
104     0232 1 MRA : REF-FIXED STRING,  
105     0233 1 XMRA : FIXED STRING,  
106     0234 1 XTSF : VECTOR;  
107     0235 1  
108     0236 1 EXTERNAL ROUTINE  
109     0237 1 ERML  
110     0238 1 OUTLIN;  
111     0239 1
```

```
: 113      0240 1 GLOBAL ROUTINE OUTXHR (KHAR) : NOVALUE =
: 114      0241 1
: 115      0242 1      ++
: 116      0243 1      FUNCTIONAL DESCRIPTION:
: 117      0244 1
: 118      0245 1      OUTXHR takes KHAR and puts it, along with underlining codes,
: 119      0246 1      into the buffer where things marked with the Index flag
: 120      0247 1      are saved.
: 121      0248 1
: 122      0249 1      FORMAL PARAMETERS:
: 123      0250 1
: 124      0251 1      KHAR is the character to be output.
: 125      0252 1
: 126      0253 1      IMPLICIT INPUTS:
: 127      0254 1
: 128      0255 1      This code will continue to work correctly only if the only
: 129      0256 1      possible values that GCA_XCASE can have is ONE_CAP or LEAVE_CASE.
: 130      0257 1
: 131      0258 1      IMPLICIT OUTPUTS: None
: 132      0259 1
: 133      0260 1      ROUTINE VALUE:
: 134      0261 1      COMPLETION CODES: None
: 135      0262 1
: 136      0263 1      SIDE EFFECTS: None
: 137      0264 1
: 138      0265 1      --
: 139      0266 1
: 140      0267 2      BEGIN
: 141      0268 2
: 142      0269 2      LOCAL
: 143      0270 2      HOLD_TSF,
: 144      0271 2      XCHAR;           !Actual character to put in index buffer
: 145      0272 2
: 146      0273 2      !Assume character needs no translation.
: 147      0274 2      XCHAR = .KHAR;
: 148      0275 2      !Now see if it needs translation.
: 149      0276 2
: 150      0277 3      IF NOT (.SCA_FRC_CHR
: 151      0278 3      OR .SCA_WORD_SET
: 152      0279 3      OR .SCA_FRC_CASE
: 153      0280 3      OR (.GCA_XCASE EQL LEAVE_CASE))
: 154      0281 2      THEN
: 155      0282 2      !Character needs to be translated.
: 156      0283 2
: 157      0284 3      IF LETTER (.XCHAR)
: 158      0285 2      THEN
: 159      0286 2      !Only letters get translated, and this is one.
: 160      0287 2
: 161      0288 2      IF .FS_LENGTH (XMRA) EQL 0
: 162      0289 2      THEN
: 163      0290 2      !The first character of the word, if it's a letter,
: 164      0291 2      gets translated to upper case.
: 165      0292 2      !NOTE: Implicit here is that GCA_XCASE is specifying ONE_CAP
: 166      0293 2
: 167      0294 3      IF LOWER_LETTER (.XCHAR)
: 168      0295 2      THEN
: 169      0296 3      XCHAR = UPPER_CASE (.XCHAR)
```

```
0297 2      ELSE
0298 3      (0)
0299 3
0300 2      ELSE
0301 2      !Other letters in the word get translated
0302 2      !to lower case.
0303 2
0304 3      IF UPPER LETTER (.XCHAR)
0305 2      THEN
0306 2      XCHAR = LOWER CASE (.XCHAR);
0307 2
0308 2      !Switch to Index flag work area.
0309 2      HOLD_TSF = .TSF;
0310 2      TSF = XTSF;
0311 2
0312 2      !First, be sure there's room enough to save the entry.
0313 3      BEGIN
0314 3      LOCAL
0315 3      NEEDED;
0316 3
0317 3      NEEDED = 0;
0318 3
0319 3      IF .SCA_WRD_AC_UND
0320 3      THEN
0321 3      NEEDED = 3;
0322 3
0323 3      IF .SCA_WRD_AC_BLD
0324 3      THEN
0325 3      NEEDED = .NEEDED + 3;
0326 3
0327 3      NEEDED = .NEEDED + 1;
0328 3
0329 3      IF (.TSF_INT_HL + .NEEDED) GTR .FS_MAXSIZE (XMRA)
0330 3      THEN
0331 3      !Won't fit. Tell user and terminate in the middle of this phrase.
0332 4      BEGIN
0333 4      TSF = .HOLD_TSF;                                !Restore "real" TSF.
0334 4      ERML(RNFITC);
0335 4      OUTXPH ();
0336 4      RETURN;
0337 3      END;
0338 2
0339 2
0340 2      !Now, put the character into the Index flag buffer.
0341 2      !First, check for underlining. Note that only underlining on a "per
0342 2      character" basis is sticky enough to get into the index. I.e., ^&A
0343 2      gets indexed as "A", but &A really does get underlined.
0344 2      IF .SCA_WRD_AC_UND
0345 2      THEN
0346 2      !Underlining was forced for this character.
0347 3      BEGIN
0348 3      FS_WCHAR (XMRA, RINTES);
0349 3      FS_WCHAR (XMRA, XC'U');
0350 3      FS_WCHAR (XMRA, XC' ');
0351 3      TSF_INT_HL = .TSF_INT_HL + 3;
0352 2
0353 2
```

```

: 227 0354 2 !Now put the character itself in.
: 228 0355 2 FS_WCHAR (XMRA, XCHAR);
: 229 0356 2 TSF_INT_HL = .TSF_INT_HL + 1;
: 230 0357 2
: 231 0358 2 IF (.XCHAR AND %X'7F') GEQ %C' '
: 232 0359 2 AND (.XCHAR AND %X'7F') LSS %O'177'
: 233 0360 2 THEN TSF_EXT_HL = .TSF_EXT_HL + 1
: 234 0361 2 ELSE TSF_EXT_HL = .TSF_EXT_HL + 1
: 235 0362 2
: 236 0363 2 IF .XCHAR EQL %O'010' !Backspace???
: 237 0364 2 THEN
: 238 0365 2 !Back up for backspace.
: 239 0366 2 TSF_EXT_HL = .TSF_EXT_HL - 1;
: 240 0367 2
: 241 0368 2 !Switch back to primary buffer
: 242 0369 2 TSF = .HOLD_TSF;
: 243 0370 1 END; !End of OUTXHR

```

```
.TITLE OUTXHR Enters characters into index flag buffer
.IDENT \V04-000\
```

```
.EXTRN RINTES, RNFITC, GCA
.EXTRN SCA, TSF, MRA, XMRA
.EXTRN XTSF, ERML, OUTLIN
```

```
.PSECT $CODE$, NOWRT, 2
```

56 00000000G	EF 9E 00002	007C 00000	.ENTRY OUTXHR, Save R2,R3,R4,R5,R6	0240
55 00000000G	EF 9E 00009	MOVAB SCA+200, R6		
54 00000000G	EF 9E 00010	MOVAB TSF, R5		
52 04	AC D0 00017	MOVAB XMRA+4, R4		
63 10	A6 E8 0001B	MOVL KCHAR, XCHAR	0274	
5F 98	A6 E8 0001F	BLBS SCA+216, 4\$	0277	
5B D8	A6 E8 00023	BLBS SCA+96, 4\$	0278	
00000000G	FF D5 00027	BLBS SCA+160, 4\$	0279	
	53 13 0002D	TSTL @GCA+84	0280	
	50 D4 0002F	BEQL 4\$		
00000041 8F	52 D1 00031	CLRL R0		
	0B 19 00038	CMPL XCHAR, #65	0284	
0000005A 8F	50 D6 0003A	BLSS 1\$		
	52 D1 0003C	INCL R0		
00000061 8F	12 15 00043	CMPL XCHAR, #90		
00000061 8F	52 D1 00045	BLEQ 2\$		
0000007A 8F	34 19 0004C	CMPL XCHAR, #97		
	52 D1 0004E	BLSS 4\$		
	2B 14 00055	CMPL XCHAR, #122		
08	A4 D5 00057	BGTR 4\$		
	17 12 0005A	2\$: TSTL XMRA+12	0288	
00000061 8F	52 D1 0005C	BNEQ 3\$		
	1D 19 00063	CMPL XCHAR, #97	0294	
0000007A 8F	52 D1 00065	BLSS 4\$		
	14 14 0006C	CMPL XCHAR, #122		
52	20 C2 0006E	BGTR 4\$		
	0F 11 00071	SUBL2 #32, XCHAR	0296	
0C	50 E9 00073	BRB 4\$	0294	
	3\$: BLBC R0, 4\$		0304	

0000005A	8F	52	D1	00076	CMPL	XCHAR, #90			
		03	14	0007D	BGTR	4\$			
		52	20	CO 0007F	ADDL2	#32, XCHAR	0306	:	
		53	65	DO 00082	4\$:	MOVL	TSF, HOLD_TSF	0309	:
		65	EF	9E 00085	MOVAB	XTSF, TSF	0310		
		03	50	D4 0008C	CLRL	NEEDED	0317		
		03	66	E1 0008E	BBC	#1, SCA+200, 5\$	0319		
		50	50	D0 00092	MOVL	#3, NEEDED	0321		
		50	66	E9 00095	5\$:	BLBC	SCA+200, 6\$	0323	
		50	50	C0 00098	ADDL2	#3, NEEDED	0325		
		04	50	D6 0009B	6\$:	INCL	NEEDED	0327	
		A4	50	C0 0009D	ADDL2	@TSF, R0	0329		
		00	85	D1 000A1	CMPL	R0, XMRA+8	0330		
			50	18 000A5	BLEQ	7\$	0331		
			65	53 D0 000A7	MOVL	HOLD_TSF, TSF	0333		
			00000000G	8F DD 000AA	PUSHL	#RNFITC	0334		
			EF	01 FB 000B0	CALLS	#1, ERML	0335		
			EF	00 FB 000B7	CALLS	#0, OUTXPH	0336		
				04 000BE	RET		0337		
		21	66	01 E1 000BF	7\$:	BBC	#1, SCA+200, 8\$	0344	
		00	B4	00G 8F 90 000C3	MOVB	#RINTES, @XMRA+4	0348		
				64 D6 000C8	INCL	XMRA+4	0349		
		00	B4	08 A4 D6 000CA	INCL	XMRA+12	0350		
				64 8F 90 000CD	MOVB	#85, @XMRA+4	0351		
				64 D6 000D2	INCL	XMRA+4	0355		
		00	B4	08 A4 D6 000D4	INCL	XMRA+12	0356		
				20 90 000D7	MOVB	#32, @XMRA+4	0358		
				64 D6 000DB	INCL	XMRA+4	0359		
		00	B5	08 A4 D6 000DD	INCL	XMRA+12	0361		
		00	B4	03 C0 000E0	ADDL2	#3, @TSF	0363		
				52 90 000E4	MOVB	XCHAR, @XMRA+4	0366		
				64 D6 000E8	INCL	XMRA+4	0369		
				08 A4 D6 000EA	INCL	XMRA+12	0370		
			50	65 D0 000ED	MOVL	TSF, R0			
				60 D6 000FO	INCL	(R0)			
		20	52	07 00 ED 000F2	CMPZV	#0, #7, XCHAR, #32			
		00		10 19 000F7	BLSS	9\$			
		52	07	00 ED 000F9	CMPZV	#0, #7, XCHAR, #127			
				05 18 00102	BGEQ	9\$			
				04 A0 D6 00104	INCL	4(R0)			
				08 11 00107	BRB	10\$			
			08	52 D1 00109	9\$:	CMPL	XCHAR, #8		
				03 12 0010C	BNEQ	10\$			
			65	04 A0 D7 0010E	DECL	4(R0)			
				53 D0 00111	10\$:	MOVL	HOLD_TSF, TSF		
				04 00114	RET				

; Routine Size: 277 bytes. Routine Base: \$CODE\$ + 0000

```
245 0371 1 GLOBAL ROUTINE OUTXPH : NOVALUE =
246 0372 1
247 0373 1 ++
248 0374 1 | FUNCTIONAL DESCRIPTION:
249 0375 1
250 0376 1 | OUTXPH is called to output a word collected by the action of
251 0377 1 | the Index flag. At the same time, it turns off the index flag.
252 0378 1 | Note that this routine is currently NOT called when a .SUBINDEX,
253 0379 1 | .INDEX, or .ENTRY command is being processed. In later enhancements
254 0380 1 | it could be made possible to allow the Index flag to be active during
255 0381 1 | the processing of one of these commands. However that is not the
256 0382 1 | case at this time.
257 0383 1
258 0384 1 | FORMAL PARAMETERS: None
259 0385 1
260 0386 1 | IMPLICIT INPUTS: None
261 0387 1
262 0388 1 | IMPLICIT OUTPUTS: None
263 0389 1
264 0390 1 | ROUTINE VALUE:
265 0391 1 | COMPLETION CODES: None
266 0392 1
267 0393 1 | SIDE EFFECTS: None
268 0394 1
269 0395 1 | --
270 0396 1
271 0397 2 | BEGIN
272 0398 2
273 0399 2 | LOCAL
274 0400 2 |   TSF_HOLD,
275 0401 2 |   MRA_HOLD,
276 0402 2 |   XTN;
277 0403 2
278 0404 2 | Preserve current buffer status.
279 0405 2 | TSF_HOLD = .TSF;
280 0406 2 | MRA_HOLD = .MRA;
281 0407 2 | Set up buffers where Index flag is doing its work.
282 0408 2 | TSF = XTSF;
283 0409 2 | MRA = XMRA;
284 0410 2 | Output the collected word only if there is one.
285 0411 2
286 0412 2 | IF .TSF_INT_HL NEQ 0
287 0413 2 | THEN
288 0414 3 |   BEGIN
289 0415 3 |   | Allocate a transaction number for this entry.
290 0416 3
291 0417 3 |   XTN = .GCA_NORMAL_XTN;
292 0418 3 |   GCA_NORMAL_XTN = .GCA_NORMAL_XTN + 1; !Bump for next index entry
293 0419 3
294 0420 3 |   Now associate the transaction number with the entry.
295 0421 3 |   TSF_FIRST_XTN = .XTN;
296 0422 3 |   TSF_LAST_XTN = .XTN;
297 0423 3 |   And finally, attach the same transaction number to the
298 0424 3 |   word in the text to which this applies.
299 0425 3
300 0426 3 | IF .SCA_WRD_F_XTN EQ 0
301 0427 3 | THEN
```

```

302 0428 3      SCA_WRD_F_XTN = .XTN;
303 0429 3
304 0430 3
305 0431 3      SCA_WRD_L_XTN = .XTN;
306 0432 3      !Make this TSF something that goes into the index.
307 0433 3      TSF_INDEX = TRUE;
308 0434 3      !And now go output this line.
309 0435 2      OUTLIN(FALSE);
310 0436 2      END;
311 0437 2      !Retrieve previous buffer status.
312 0438 2      TSF = .TSF_HOLD;
313 0439 2      MRA = .MRA_HOLD;
314 0440 2      Turn off the index flag now, and that's it until next time.
315 0441 2      Note that SCA_X_FLAG is used only when the Index flag is
316 0442 2      active. Failure to turn it off will cause the program to
317 0443 2      lose coordination with Index flag processing. Typical
318 0444 2      symptoms of this problem include the index table getting too
319 0445 2      large, or, even more obscurely, normal text being rejected
320 0446 2      because it's too complicated.
321 0447 2      SCA_X_FLAG = FALSE;
322 0448 2      RETURN;
323 0449 1      END;

```

!End of OUTXPH

<pre> 57 00000000G 00FC 00000 56 00000000G EF 9E 00002 55 00000000G EF 9E 00009 54 00000000G EF 9E 00010 53 65 D0 0001E 52 66 D0 00021 65 00000000G EF 9E 00024 66 00000000G EF 9E 0002B 50 65 D0 00032 60 D5 00035 25 13 00037 51 67 D0 00039 38 A0 51 D0 0003E 3C A0 51 D0 00042 64 D5 00046 03 12 00048 04 A4 51 D0 0004A 14 A0 51 D0 0004D 00000000G EF 01 FB 00057 65 53 D0 0005E 66 52 D0 00061 FF74 C4 D4 00064 04 00068 </pre>	<pre> .ENTRY OUTXPH, Save R2,R3,R4,R5,R6,R7 MOVAB GCA+168, R7 MOVAB MRA, R6 MOVAB TSF, R5 MOVAB SCA+296, R4 MOVL TSF, TSF_HOLD MOVL MRA, MRA_HOLD MOVAB XTSF, TSF MOVAB XMRA, MRA MOVL TSF, R0 TSTL (R0) BEQL 2S MOVL GCA+168, XTN INCL GCA+168 MOVL XTN, 56(R0) MOVL XTN, 60(R0) TSTL SCA+296 BNEQ 1S MOVL XTN, SCA+296 MOVL XTN, SCA+300 MOVL #1, 20(R0) CLRL -(SP) CALLS #1, OUTLIN MOVL TSF_HOLD, TSF MOVL MRA_HOLD, MRA CLRL SCA+156 RET </pre>	0371 0405 0406 0408 0409 0412 0417 0418 0421 0422 0426 0428 0430 0432 0434 0438 0439 0447 ; 0449
--	--	--

: Routine Size: 105 bytes, Routine Base: \$CODE\$ + 0115

OUTXHR
V04-000

Enters characters into index flag buffer
Module Level Declarations

H 15
16-Sep-1984 01:23:53
14-Sep-1984 13:07:35 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]OUTXHR.BLI;1

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: 324 0450 1
: 325 0451 1 END
: 326 0452 0 ELUDOM

.End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODES	382	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]XPORT.L32:1	590	0	0	252	00:00.1
-\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32:1	1248	40	3	86	00:00.3

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:OUTXHR/OBJ=OBJ\$:OUTXHR MSRC\$:OUTXHR/UPDATE=(ENH\$:OUTXHR)

: Size: 382 code + 0 data bytes
: Run Time: 00:08.5
: Elapsed Time: 00:19.5
: Lines/CPU Min: 3209
: Lexemes/CPU-Min: 17112
: Memory Used: 91 pages
: Compilation Complete

0346 AH-BT13A-SE
VAX/VMS V4.0

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